

Notice of Allowability

Application No.

09/849,524

Examiner

Christine Sung

Applicant(s)

LANNESTEDT ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/11/2003 and 9/4/2003.
2. ☒ The allowed claim(s) is/are 1-5,7-11,13,15-17, 19-22,24-45, 47-58, 60-61 and 63-66.
3. ☒ The drawings filed on 07 May 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No. _____.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892) | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____ |
| 5 <input type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. _____ | 6 <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9 <input type="checkbox"/> Other |

Response to Amendment

1. The amendment filed on August 11, 2003 has been entered.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Eric Jensen on September 4, 2003.

The application has been amended as follows:

3. Claims 18 and 62 have been cancelled.
4. In the amendment two claims have been numbered claim (29). The first claim has been cancelled and the second claim 29 has been replaced with the following, so as to avoid misnumbering the claims:
5. 29. An optical focusing system for and IR camera including a Focal Plane Array as detecting system for said camera, comprising:

at least one storage means attached to the optical focusing system arranged to hold calibration parameters of the optical focusing system;

downloading means to download a signal based on the calibration parameters; and

adjustment means to adjust said infrared camera making used of said downloaded signal;

wherein the optical focusing system is constructed and arranged to be removable.

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6. Further claim 13 has been amended as follows to further clarify the claim.

13. An IR camera according to claim ~~12~~ 1, comprising:

storing means storing ~~said~~ computed information based on said downloaded signal

~~having relation to said optics; and~~

restoring means restoring said stored information when said at least one component is inserted again into the IR camera after having been removed from the IR camera.

7. Claim 66 has been added to further clarify the invention per applicant's request.

66. An IR camera according to claim 1, wherein the adjustment means is adapted to adjust said Focal Plane Array making use of said calibration information.

8. Further, claim 15 has been amended so that it claims proper dependency and has been further clarified per applicant's request.

15. An IR camera according to claim 66, comprising:

storing means storing ~~said~~ computed information based on said downloaded signal

~~having relation to said optics; and~~

restoring means restoring said stored information when said at least one component is inserted again into the IR camera after having been removed from the IR camera.

Allowable Subject Matter

9. Claims 1-5, 7-11, 13, 15-17, 19-22, 24-45, 47-58, 60-61 and 63-66 are allowed.

10. The following is an examiner's statement of reasons for allowance:

11. Regarding claims 1-5, 7-11, 13, 15-17, 19, 29-45, 47-57 and 66, although Wood discloses a similar IR camera, it does not disclose the specifics of the claim, namely the particular

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elements of the optical focusing system which allow the optical focusing system to be calibrated.

The primary reasons for allowance include the use of a storage element and downloading element to adjust the optical elements to calibrated positions, for use in an IR camera.

Claims 20-22 and 24-26 disclose that the stray light that enters the cavity must be reflected at least three times before it is permitted to reach the FPA. None of the prior art of record discloses the aforementioned limitation.

Regarding claims 27--28 and 58, the reasons for allowance are clearly stated in the amendment filed on August 11, 2003.

Further, claims 60-61, and 63-65 disclose a cavity with a ratio of depth to radius being at least 1 to 5 and a radius being at least 3 times the width of any of said apertures. None of the prior art of record discloses the aforementioned ratio.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christine Sung whose telephone number is 703-305-0382. The examiner can normally be reached on Monday- Friday 7-4 pm.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on 703-308-4852. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Christine Sung
Examiner
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CS



DAVID PORTA
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